

WEST BENGAL MEDICAL SERVICES CORPORATION LIMITED

(Wholly owned by the Government of West Bengal)

Regd. Off: Swasthya Bhawan, GN-29, Sector-V, Salt Lake, Kolkata-91

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Memo No: WBMSC/Quotation-22/2014

Date: 10/04/2014

INVITING QUOTATION FOR QUALITY CERTIFICATION OF OXYGEN PIPELINE

West Bengal Medical Service Corporation Limited is inviting sealed quotation for quality testing of oxygen pipeline from reputed Quality Certification (QC) Bodies/Agencies.

Brief of job is noted in the table below:

Schedule No.	Name of the work	No. of location for the test
01.	Quality Certification of Oxygen Pipeline	06

Detail scope of work and Technical Specifications of the oxygen pipeline is annexed.

West Bengal Medical Services Corporation Ltd. intends to engage reputed, qualified and experienced Quality Certification (QC) Bodies having the qualifications noted hereunder.

1. Valid Accreditation Certificate of the Body/Agency for Quality Certification
2. IT Return of last 1 year (2012-13)
3. Valid PAN Number.

The Agency should submit documents in support of the above criteria along with their quotation/financial quotes in two separate sealed envelopes.

Submission of Quotation:

- The contract shall be valid for the entire quantity as mentioned above. Corrections if any shall be made by crossing out, initialing, dating and re writing.
- All duties, taxes and other levies payable by the selected bidder under the contract shall be included in the quoted price/financial quote.
- The rate quoted should include cost for travelling, man power, inspection, testing, gadget calibration, conforming the installation with the specifications, testing charges of sample of material from any other accredited laboratories etc.
- The rates quoted by the bidder shall include the cost of courier/postage charges to deliver test report at WBMSCL office.
- The price to be quoted in Indian rupees only.

Each bidder shall submit only one quotation.

Validity of quotation:

- Quotation shall remain valid for a period not less than 3 months after the last date specified for submission

Evaluation of quotation:

- WBMSCL will evaluate and compare the quotations determined to be substantially responsive i.e. which
 - (a) are properly signed
 - (b) conform with required qualification criteria
 - (c) Conform with the terms and conditions

Comparison of Financial quotes would be based on the sum of quotes for the 6(six) facilities taken together. Work will be awarded to one Agency only.

Schedule:

1.	Last date of submission of quotation	17.04.2014 up to 5:00 PM
2.	Date of opening of quotation	17.04.2014 after 5:00 PM

Submission & Acceptance of quotation:

- Prospective bidders are requested to submit the quotations in a sealed cover via courier/post addressed to the Managing Director, WBMSCL Ltd. at Swasthya Bhawan, GN-29, Sector-V, Salt Lake, Kolkata – 700091 within the stipulated date & time.
- The purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.
- The bidder whose bid is accepted will be notified of the award of contract by the purchaser within the validity of the quotation period. The terms of the accepted offer shall be incorporated in the purchase order.

Format for quotation/Financial quotes:

Sl. No	Name of Facility	Name of the work	Total Amount in INR inclusive of all taxes and charges
1.	Burdwan Medical College and Hospital	Inspection and Quality Certification of Oxygen Pipeline system	
2.	B.C. Roy PGIPS	Inspection and Quality Certification of Oxygen Pipeline system	
3.	M. R. Bangur Hospital	Inspection and Quality Certification of Oxygen Pipeline system	
4.	Midnapore Medical College & Hospital	Inspection and Quality Certification of Oxygen Pipeline system	
5.	Medical College and Hospital, Kolkata	Inspection and Quality Certification of Oxygen Pipeline system	
6.	N.R.S Medical College and Hospital	Inspection and Quality Certification of Oxygen Pipeline system	
Total			

Timeline for submission of report:

The QC report to be submitted within 14 (fourteen) days.

Payment terms

Payment would be processed within 7 (Seven) days after submission of test/quality report and bills.

WBMSCL reserves the right to accept or reject any quotation and to cancel the bidding process and reject all quotations at any time without assigning any reason whatsoever.

Managing Director

Memo No: WBMSC/ Quotation-22/2014

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Copy forwarded for information and necessary action to:

- (1) IT cell of the Department with the request to upload the notice in the website of the Department of H & FW.
- (2) Office copy.

Managing Director

SCOPE OF WORK

The Body/Agency should corroborate the specification of the pipelines laid out and outlet points installed as per facility wise schedule of work executed noted hereunder,

Sl.No.	Hospitals	Estimated length of Pipeline & Number of outlets
1.	Burdwan Medical College and Hospital	<ul style="list-style-type: none">• Estimated Length of Pipeline:<ul style="list-style-type: none">a. Copper Pipe with OD of 28 mm: 45 Mtrsb. Copper Pipe with OD of 15 mm: 399 Mtrsc. Copper Pipe with OD of 12 mm: 153 Mtrs• The number of oxygen outlet points: 162
2.	B.C. Roy PGIPS	<ul style="list-style-type: none">• Estimated Length of Pipeline:<ul style="list-style-type: none">a. Copper Pipe with OD of 28 mm: 38 Mtrsb. Copper Pipe with OD of 15 mm: 324 Mtrsc. Copper Pipe with OD of 12 mm: 72 Mtrs• The number of oxygen outlet points: 122
3.	M. R. Bangur Hospital	<ul style="list-style-type: none">• Estimated Length of Pipeline:<ul style="list-style-type: none">a. Copper Pipe with OD of 28 mm: 408 Mtrsb. Copper Pipe with OD of 15 mm: 1176 Mtrsc. Copper Pipe with OD of 12 mm: 78 Mtrs• The number of oxygen outlet points: 190
4.	Midnapore Medical College & Hospital	<ul style="list-style-type: none">• Estimated Length of Pipeline:<ul style="list-style-type: none">a. Copper Pipe with OD of 15 mm: 50 Mtrsb. Copper Pipe with OD of 12 mm: 24 Mtrs• The number of oxygen outlet points: 12

5.	Medical College and Hospital, Kolkata	<ul style="list-style-type: none"> • Estimated Length of Pipeline: <ul style="list-style-type: none"> a. Copper Pipe with OD of 15 mm: 330 Mtrs b. Copper Pipe with OD of 12 mm: 89 Mtrs • The number of oxygen outlet points: 70
6.	N.R.S Medical College and Hospital	<ul style="list-style-type: none"> • Estimated Length of Pipeline: <ul style="list-style-type: none"> a. Copper Pipe with OD of 15 mm: 90 Mtrs b. Copper Pipe with OD of 12 mm: 40 Mtrs • The number of oxygen outlet points: 32

Technical Specification

Design and Structure of the Gas Pipeline System

Standard should comply as follows:

1. Standard should comply as follows:
 - a. The entire installation should be compliant to NFPA 99C (or later) or HTM 0201 (or later) or BS EN 737-3 (or later) or EN 737-3 (or later) standards.
 - b. Terminal unit shall comply with ISO 9170-1.
 - c. Gas-specific connector shall comply with the body of a NIST or DISS connector complying with ISO 5359.
 - d. Manifold and line pressure regulator shall comply with ISO 10524-2.
 - e. Pressure gauges shall comply with the requirement given in ISO 10524-2
2. All equipments, parts, and accessories will be of approved quality meeting the relevant standards, as applicable.
3. Pipe to be certified by the international recognized body eg. LLOYDS/ SGS, IIIrd Party inspection.
4. The system required for the tender comprises of the following items, as required in various schedules
 - a. Distribution piping with Monitoring and alarm system and accessories (Schedule C)
 - b. Outlets and accessories (Schedule C)
 - c. Installation of complete Manifold and Pipeline system
 - d. Other Accessories

The specifications for the same are given below:

Specification of Copper pipe:

Copper Pipe Specifications for connection between the LMO vessel and Manifold Room

Outer Dia.	Thickness
1. 54mm	1.2mm
2. 76 mm	1.5mm

The following pipes will be required for header pipeline and dropdown pipeline :

Outer Dia.	Thickness
1. 12mm	0.7mm
2. 15mm	0.9mm
3. 22mm	0.9mm
4. 28mm	0.9mm
5. 42mm	1.2mm

Specification:-

Materials:- Copper pipes should be solid drawn seamless deoxidised non arsenical, half hard tempered and degreased and delivered capped at both ends. Copper pipe should confirm to BS : 6017,1981, and manufactured as per BS: 2871, 1971 part- I

- i. Isolation valves will be non-lubricated ball type, suitable for oxygen service.
- ii. All valves should be pneumatically tested for twice the working pressure and factory degreased for medical gas service before supply.
- iii. Copper fitting shall be made of copper and suitable for a steam working pressure of 17 bar and specially made for brazed socket type connection. All copper fittings will confirm to BS 864
- iv. Pipes should be accompanied with manufacturer's text certificates for the physical properties and chemical composition.
- v. The supply of pipes shall be further substantiated with inspection certificates from third party inspectors like LLOYDS.

Installation and testing:-

- i. Pipe fixing clamps should be of non-ferrous or non-deteriorating plastic suitable for diameter of the pipe.
- ii. All pipe joints should be made using flux less brazing method.
- iii. All joints should be made of copper to copper and brazed by silver brazing filler material without flux.
- iv. Adequate support to be provided while laying pipelines. All pipe clamps should be non-reactive to copper.
- v. All piping system shall be tested in the presence of the site engineer or two authorized representative, to be tested at a pressure equal to 1.5 times of the working pressure or 150 psig whichever is higher for a period of not less than 24 Hours.

Painting:-

All exposed pipes should be painted with 2 coats of synthetic enamel paint compatible with existing colour coding.

Specification of Outlets:

Double lock outlets

Specifications:-

- o Outlets should be of quick connecting and wall mounted type.
- o Outlets manufactured with 165 mm length copper inlet pipe stub which is silver brazed to outlet body.
- o Body of one piece of brass construction and outlet shall be equipped with a primary and secondary and the secondary check valve shall be rated at minimum 200 psi. In the event the primary check valve is removed for maintenance there should not be any leakage (on-line maintenance should be possible w/o disrupting the functioning of other outlets). Outlet bodies shall be gas specific by indexing each gas service to a gas specific dual pin indexing arrangement on the respective identification module.
- o There should be a push button release mechanism for disconnecting apparatus accessible from top, bottom and side of outlets.
- o A large color-coded front plate shall be used for ease of gas identification and aesthetic appeal.

- o With the back rough in mounted the outlet shall adjust up to 25 mm variation in wall thickness.
- o The latch valve assembly should accept only corresponding gas specific adaptors.
- o All outlets shall be cleaned and degreased for medical gas service, factory assembled and tested.

BPC flow meter with humidifier

Specifications:-

- o Back pressure compensated flow meter with accurate gas flow measurement.
- o Control within range of 0-15 liters per minute.
- o Made of brass chrome plated materials.
- o Humidifier bottle should be made of poly carbonate material and should be reusable and unbreakable and must be auto-clavable atleast at 121^o centigrade.
- o Inlet filter of stainless steel wire mesh to prevent foreign particle entry.

Isolation Ball Valve, of appropriate size, with brass adapter at every 25-50 outlets and in front of each facility

Specifications:- Lever operated, quarter turn valve with brass body and chrome plated brass ball.

Note: The interested bidders are requested to visit the site to check the actual position and for accurate proposal planning.